

I claim:

1. A rotating centrifuge for decanting lighter material from heavier material from a mixture of initial material, the centrifuge comprising:

5 a housing having a central body and a hollow arm extending from said body, said arm having a first end attached to said central body, and a second end extending away from said central body, and an end cap attached to said second end of said arm to form a chamber in said arm;

10 a baffle attached to said body and extending into said chamber, said baffle having a longer inner tube having an interior and a distal end, and a shorter outer tube, said longer tube positioned inside said shorter tube and defining an inner space therebetween;

an outer space defined between said shorter tube and said hollow arm;

15 an entrance path for the mixture of initial material formed in said housing and communicating with said inner space;

an exit path for said light material formed in said housing and communicating with said outer space;

20 an exit path for said heavier material formed in said housing and including the interior of said longer tube; and

wherein a plug is formed in said chamber adjacent said end cap to engage said distal end of said longer tube and thereby

to guide said lighter material.

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...om a mixture of initial material.

...sing having a central body;

...file engaging said body, said
...an interior and a distal end
...positioned inside said shorter
...between;

...low arm extending from said
...d engaging said baffle, and a
...entral body;

...nd cap engaging said second
...d arm, said end cap attached
...ending from said end cap to
...affle and said hollow arm be
...y;

...outer space defined between

...entrance path for the mixture
...and communicating with said

...exit path for said light material
...ating with said outer space;

2. A rotating centrifuge for decanting lighter material from heavier material from a mixture of initial material, the centrifuge comprising:

a housing having a central body;

5 a baffle engaging said body, said baffle having a longer inner tube having an interior and a distal end, and a shorter outer tube, said longer tube positioned inside said shorter tube and defining an inner space therebetween;

10 a hollow arm extending from said central body, said arm having a first end engaging said baffle, and a second end extending away from said central body;

an end cap engaging said second end of said arm to form
a chamber in said arm, said end cap attached to said central body by a
through-bolt extending from said end cap to said central body, and
15 clamping said baffle and said hollow arm between said end cap and
said central body;

an outer space defined between said shorter tube and said hollow arm;

an entrance path for the mixture of initial material formed
20 in said housing and communicating with said inner space;

an exit path for said light material formed in said housing
and communicating with said outer space; and

an exit path for said heavier material formed in said housing and including the interior of said longer tube.

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